

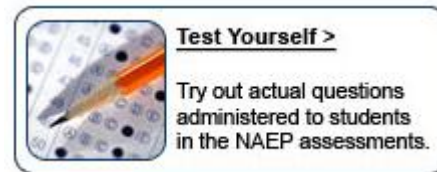
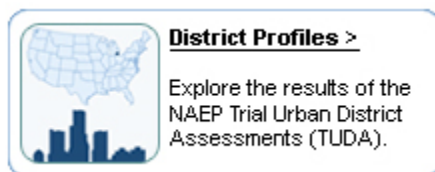
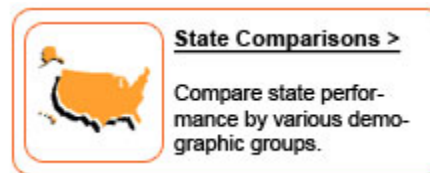
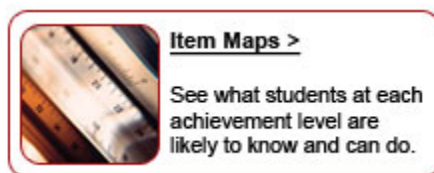
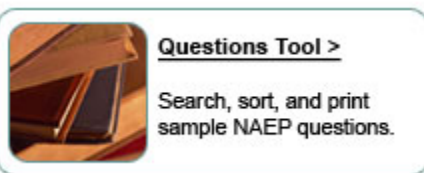
# A Guide to Replicate the Contextual Data File from the NAEP Data Explorer

<http://nces.ed.gov/nationsreportcard/naepdata/dataset.aspx>



## One stop spot for all of your NAEP needs (below)

<http://nces.ed.gov/nationsreportcard/about/naeptools.asp>




# 1. Go To:

<http://nces.ed.gov/nationsreportcard/naepdata/>

**After you agree to the terms of Data Usage you will be directed to this screen**

The screenshot shows the NAEP Data Explorer web application. At the top, the NAEP logo is on the left, and the title "NAEP Data Explorer" is in the center. Below the title is a navigation bar with links: "Analyze Data", "Sample Questions", "State Comparisons", "State Profiles", and "District Profiles". Below this is a progress bar with four steps: "1. Select Criteria", "2. Select Variables", "3. Edit Reports", and "4. Build Reports". The first step, "1. Select Criteria", is highlighted. Below the progress bar, the instructions for Step 1 are: "STEP 1: Select criteria from each drop-down menu to begin. Additional options related to your selections will appear. Then select measures, jurisdictions, and years based on available data." To the right of the instructions is a green button labeled "NDE Help". Below the instructions are two drop-down menus: "Subject:" and "Grade:". To the right of these menus is a blue button labeled "Reset". Below the drop-down menus is a green button labeled "2. Select Variables". At the bottom of the interface are three links: "About NAEP Data Explorer", "Important Legal Information", and "Accessible Version".

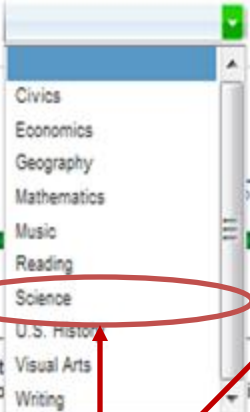
**Note:** slides with the designation **\*Optional** are for those individuals who are familiar with NAEP data and wish to get into deeper NAEP analysis with the NDE.


 **NAEP Data Explorer**

[Analyze Data](#) | [Sample Questions](#) | [State Comparisons](#) | [State Profiles](#) | [District Profiles](#)

**MAIN NDE** | 1. Select Criteria | 2. Select Variables | 3. Edit Reports | 4. Build Reports

**STEP 1:** Select criteria from each drop-down menu to begin. Additional options related to your selections will appear. Then select measures, jurisdictions, and years based on available data. [NDE Help](#)

**Subject:**   
Civics  
Economics  
Geography  
Mathematics  
Music  
Reading  
**Science**  
U.S. History  
Visual Arts  
Writing

**Grade:**   
Grade 4  
Grade 8  
Grade 12

[Reset](#) [2. Select Variables](#)

[NewsFlash](#) | [Staff](#) | [Contact](#) | [Help](#) | [RSS](#) | [Privacy Policy](#)  
[Statistical Standards](#) | [FedStats.gov](#) | [ChildStats.gov](#)

U.S. Department of Education

**2. In the drop down boxes select a subject [e.g., science] and Grade [e.g., 4]**

**\*[Field] will change depending on user preference**

**STEP 1:** Select criteria from each drop-down menu to begin. Additional options related to your selections will appear. Then select measures, jurisdictions, and years based on available data.

NDE Help

Subject:

Science

Grade:

Grade 4

Framework:

2009 Science

Reset

2009 Science

1996 Science

Category

Sub Category

Measure

All Years



▼ NAEP Scale Scores

▼ Science Scales

☒ Overall science scale [details](#)☐ Earth science scale [details](#)☐ Life science scale [details](#)☐ Physical science scale [details](#)

3. Select Framework year

Select desired measures

4. Check the year

**STEP 1:** Select criteria from each drop-down menu to begin. Additional options related to your selections will appear. Then select measures, jurisdictions, and years based on available data.

NDE Help

Subject: Science

Grade: Grade 4

Framework: 2009 Science

Reset

Category	Sub Category	Measure	All Years <input checked="" type="checkbox"/>	2009 <input checked="" type="checkbox"/>
▼ NAEP Scale Scores	▼ Science Scales	<input checked="" type="checkbox"/> Overall science scale <a href="#">details</a>		<input type="checkbox"/>
		<input type="checkbox"/> Earth science scale <a href="#">details</a>		<input type="checkbox"/>
		<input type="checkbox"/> Life science scale <a href="#">details</a>		<input type="checkbox"/>
		<input type="checkbox"/> Physical science scale <a href="#">details</a>		<input type="checkbox"/>

Group	Jurisdiction	All Years <input checked="" type="checkbox"/>	2009 <input checked="" type="checkbox"/>
▼ <input type="checkbox"/> National	<input type="checkbox"/> National <a href="#">details</a>		<input type="checkbox"/>
	<input checked="" type="checkbox"/> National public <a href="#">details</a>		<input type="checkbox"/>
	<input checked="" type="checkbox"/> National private <a href="#">details</a>		<input type="checkbox"/>
	<input type="checkbox"/> Large city <a href="#">details</a>		<input type="checkbox"/>
▼ <input checked="" type="checkbox"/> State	<input checked="" type="checkbox"/> Alabama		<input type="checkbox"/>
	<input checked="" type="checkbox"/> Arizona		<input type="checkbox"/>
	<input checked="" type="checkbox"/> Arkansas		<input type="checkbox"/>
	<input checked="" type="checkbox"/> California		<input type="checkbox"/>
	<input checked="" type="checkbox"/> Colorado		<input type="checkbox"/>

5. Check boxes of desired jurisdictions

6. Click on Select variables for next step

2. Select Variables ▶

**STEP 2:** Select at least one variable from the category list below. View the list of all available variables, view by selected variables only, or search variables by keywords. Years selected will override previous selections.

NDE Help

**Subject, Grade:** Science, Grade 4

**Jurisdictions:** National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA

**Measure:** Overall science scale

**Year:** 2009

Reset

View All (416)

View Selected (0)

Search:

Go

Category	Sub Category	Variable	All Years <input checked="" type="checkbox"/>	2009 <input checked="" type="checkbox"/>
▼ Major Reporting Groups	▼ Student Factors	<input type="checkbox"/> All students <a href="#">details</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/> Disability status of student, excluding those with 504 plan <a href="#">details</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/> Disability status of student, including those with 504 plan <a href="#">details</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/> Gender <a href="#">details</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/> National School Lunch Program eligibility, 3 categories <a href="#">details</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/> Race/ethnicity used to report trends, school-reported <a href="#">details</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/> Status as English Language Learner, 2 categories <a href="#">details</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/> Student disability or English Language Learner status <a href="#">details</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

What has been  
selected thus far

You are here

<a href="#">View All (416)</a>		<a href="#">View Selected (7)</a>		Search: <input type="text"/>		<a href="#">Go</a>	
Category	Sub Category	Variable	All Years <input checked="" type="checkbox"/>	2009 <input checked="" type="checkbox"/>			
▼ Major Reporting Groups	▼ Student Factors	<input checked="" type="checkbox"/> All students <a href="#">details</a>					
		<input checked="" type="checkbox"/> Disability status of student, excluding those with 504 plan <a href="#">details</a>					
		<input checked="" type="checkbox"/> Disability status of student, including those with 504 plan <a href="#">details</a>					
		<input checked="" type="checkbox"/> Gender <a href="#">details</a>					
		<input checked="" type="checkbox"/> National School Lunch Program eligibility, 3 categories <a href="#">details</a>					
		<input checked="" type="checkbox"/> Race/ethnicity used to report trends, school-reported <a href="#">details</a>					
		<input checked="" type="checkbox"/> Status as English Language Learner, 2 categories <a href="#">details</a>					
		<input type="checkbox"/> Student disability or English Language Learner status <a href="#">details</a>					
	► School Factors						
	► Community Factors						

7. Select desired variables

☒ National School Lunch Program eligibility, 3 categories [hide details](#)

**Full Title:** Student eligibility for National School Lunch Program based on school records (collapsed to three categories, as included in NAEP reports)  
**ID:** SLUNCH3  
**Values:** Eligible, Not eligible, Information not available

☐ Parental education level, from 2 questions [hide details](#)

**Full Title:** Parental education: Highest level achieved by either parent (based on student responses to two background questions)  
**ID:** PARED  
**Values:** Did not finish high school, Graduated high school, Some education after high school, Graduated college, Unknown

☒ Science is a favorite subject [hide details](#)

**Full Title:** Please indicate how much you disagree or agree with the following statements about science: Science is one of my favorite subjects (student-reported)  
**ID:** K816605  
**Values:** Strongly disagree, Disagree, Agree, Strongly agree

View All (416)		View Selected (7)		Search: <input type="text"/>		Go
Category	Sub Category	Variable	All Years	2009		
▼ Major Reporting Groups	▼ Student Factors	<input checked="" type="checkbox"/> All students <a href="#">hide details</a> <b>Full Title:</b> All students <b>ID:</b> TOTAL <b>Values:</b> All students	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

8. For more information on a variable click on details



Our next step is to find the variable for **instructional time**. There are many variables to choose for the Science assessment. We could look through variable categories:

Category	Sub Category	Variable
▼ Instructional Content and Practice	▶ Curriculum	
	▶ Course offerings	
	▶ Classroom management	
	▶ Grouping	
	▶ Modes of instruction/classr... activities	
▼ Teacher Factors	▶ Demographics	
	▶ Preparation, credentials and experiences	
	▶ Attitudes/ex...	
	▶ Teacher support	

...or search based on a key word: time

<a href="#">View All (768)</a>		<a href="#">View Selected (1)</a>		Search: <input type="text" value="time"/>		<input type="button" value="Go"/>	
Category	Sub Category	Variable	All Years	2005	2000	2000 <sup>4</sup>	1976
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**9. Type in time in the Search box and click on Go**

# RESULTS: Variable found under Classroom management using the Search based on “time”

MAIN NDE

1. Select Criteria

2. Select Variables

3. Edit Reports

4. Build Reports

STEP 2:

Select at least one variable from the category list below. View the list of all available variables, view by selected variables only, or search variables by keywords. Years selected will override previous selections.

NDE Help

Subject, Grade: Science, Grade 4

Jurisdictions: National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA

Measure: Overall science scale

Variables: All students, Disability status of student, excluding those with 504 plan, Disability status of student, including those with 504 plan, Gender, National School Lunch Program eligibility, 3 categories, Race/ethnicity used to report trends, school-reported, Status as English Language Learner, 2 categories

Year: 2009

Reset

View All (416)

View Selected (7)

Search: (9) time

Go

Category	Sub Category	Variable	All Years	2009
Instructional Content and Practice	Curriculum	<input type="checkbox"/> Class time spent on earth and space science <a href="#">details</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/> Class time spent on engineering and technology <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Class time spent on life science <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Class time spent on physical science <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>
	Classroom management	<input type="checkbox"/> Time per week on science instruction <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>
Teacher Factors	Teacher support	<input type="checkbox"/> Science specialist available for 4th grade <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>
School Factors	School climate	<input type="checkbox"/> Full-time teachers left before end of year <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>
	Charter School Supplement	<input type="checkbox"/> Number of times charter renewed <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>
Factors Beyond School	Time use outside of school	<input type="checkbox"/> Newspaper in home <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>

3. Edit Reports

## Details of variable:

▼ Classroom management

☒ Time per week on science instruction  
[hide details](#)  
**Full Title:** About how much time in total do you spend with this class on science instruction in a typical week? (teacher-reported)  
**ID:** T090101  
**Values:** Less than 1 hour, 1-1.9 hours, 2-2.9 hours, 3-3.9 hours, 4 hours or more

## 10. Next click on Edit reports

Category	Sub Category	Variable	All Years	2009
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
▼ Instructional Content and Practice	▼ Curriculum	<input type="checkbox"/> Class time spent on earth and space science <a href="#">details</a>		☆☆☆☆
		<input type="checkbox"/> Class time spent on engineering and technology <a href="#">details</a>		☆☆☆☆
		<input type="checkbox"/> Class time spent on life science <a href="#">details</a>		☆☆☆☆
		<input type="checkbox"/> Class time spent on physical science <a href="#">details</a>		☆☆☆☆
	▼ Classroom management	<input checked="" type="checkbox"/> Time per week on science instruction <a href="#">hide details</a> <b>Full Title:</b> About how much time in total do you spend with this class on science instruction in a typical week? (teacher-reported) <b>ID:</b> T090101 <b>Values:</b> Less than 1 hour, 1-1.9 hours, 2-2.9 hours, 3-3.9 hours, 4 hours or more		☆☆☆☆
▼ Teacher Factors	▼ Teacher support	<input type="checkbox"/> Science specialist available for 4th grade <a href="#">details</a>		☆☆☆☆
▼ School Factors	▼ School climate	<input type="checkbox"/> Full-time teachers left before end of		☆☆☆☆

3. Edit Reports

**STEP 3:** Preview and edit existing reports using the action links next to each report name. Create new reports, set format and statistic options. (New and copied reports will appear at the bottom of the report list.)

NDE Help

**Subject, Grade:** Science, Grade 4

**Jurisdictions:** National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA

**Measure:** Overall science scale

**Variables:** All students, Disability status of student, excluding those with 504 plan, Disability status of student, including those with 504 plan, Gender, National School Lunch Program eligibility, 3 categories, Race/ethnicity used to report trends, school-reported, Status as English Language Learner, 2 categories, Time per week on science instruction

**Year:** 2009

Reset

Create New Report			Format Options		Statistics Options	
Report	All <input checked="" type="checkbox"/>	Action	Measure	Variable	Year Jurisdiction	Statistic
Report 1	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	All students	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 2	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Disability status of student, excluding those with 504 plan	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 3	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Disability status of student, including those with 504 plan	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 4	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Gender	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 5	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	National eligibility, 3 categories	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 6	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Race/ethnicity used to report trends, school-reported	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 7	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Status as English Language Learner, 2 categories	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 8	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Time per week on science instruction	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores

11. Select Format options

## 11. Select Format options

**Format Options** X

Choose options that will apply to all reports.  
View selected format in Sample Display. **Help**

**Variable Labels:**

☒ Short (e.g. Gender)  
☐ Long (e.g. Gender of student as taken from school records)

☐ Show data for values categorized as Missing (this applies only when percentages are displayed).  
☒ Show variable name in titles (e.g. [GENDER])

**Year Order:**

☒ Most recent year first (default)  
☐ Oldest year first

**Decimal Places:** ☒ None ☐ 1 ☐ 2

(For row percents, the number of decimal places is fixed at "None")

**Include:**

☒ Standard Errors ☐ Confidence Intervals ☐ None  
☒ Use parentheses/brackets

**Sample Display:** ### (##)

**Cancel** **Done**

Default settings

**Format Options** X

Choose options that will apply to all reports.  
View selected format in Sample Display. **Help**

**Variable Labels:**

☐ Short (e.g. Gender)  
☒ Long (e.g. Gender of student as taken from school records)

☐ Show data for values categorized as Missing (this applies only when percentages are displayed).  
☒ Show variable name in titles (e.g. [GENDER])

**Year Order:**

☒ Most recent year first (default)  
☐ Oldest year first

**Decimal Places:** ☒ None ☐ 1 ☐ 2

(For row percents, the number of decimal places is fixed at "None")

**Include:**

☐ Standard Errors ☐ Confidence Intervals ☒ None  
☐ Use parentheses/brackets

**Sample Display:** ###

**Cancel** **Done**

12. Select Long for Variable Labels and under Include select None

**STEP 3:** Preview and edit existing reports using the action links next to each report name. Create new reports, set format and statistic options. (New and copied reports will appear at the bottom of the report list.)

NDE Help

**Subject, Grade:** Science, Grade 4

**Jurisdictions:** National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA

**Measure:** Overall science scale

**Variables:** All students, Disability status of student, excluding those with 504 plan, Disability status of student, including those with 504 plan, Gender, National School Lunch Program eligibility, 3 categories, Race/ethnicity used to report trends, school-reported, Status as English Language Learner, 2 categories, Time per week on science instruction

**Year:** 2009

Reset

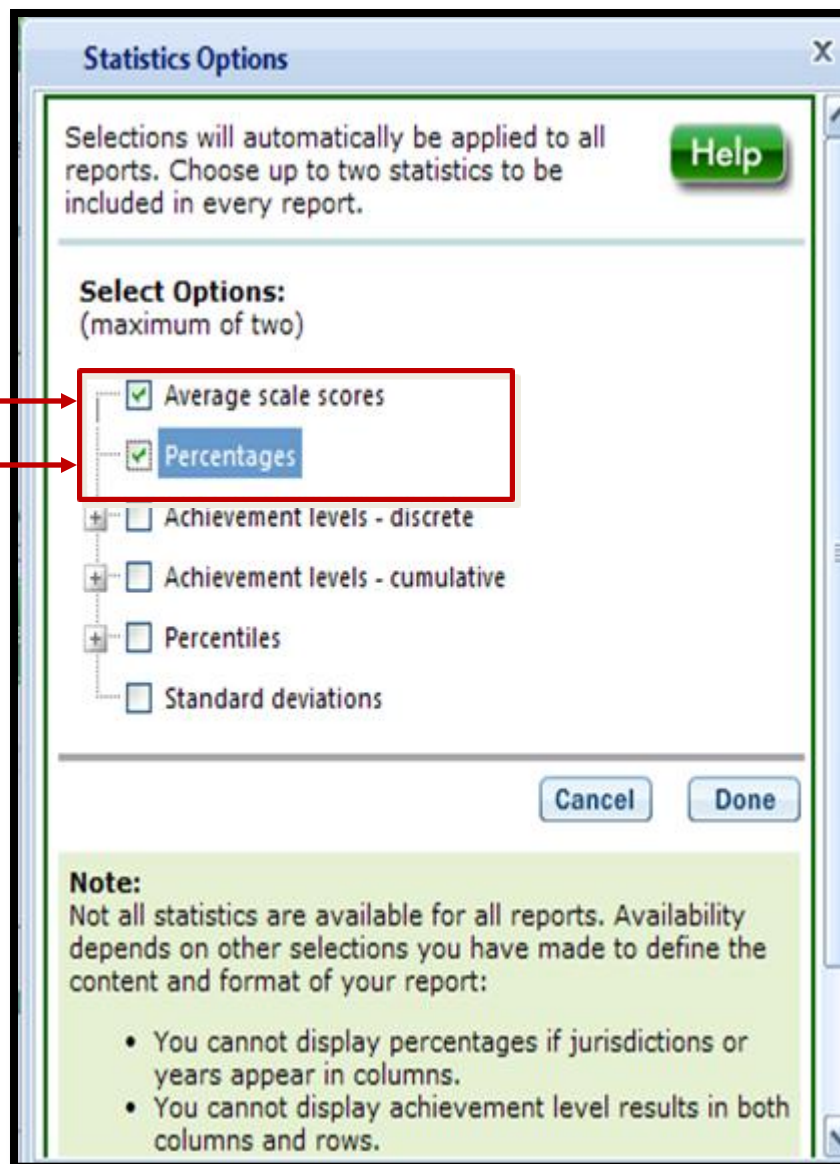
Create New Report

Format Options

Statistics Options

Report	All <input checked="" type="checkbox"/>	Action	Measure	Variable	Year	Jurisdiction	Statistic
Report 1	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	All students	2009	National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 2	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Disability status of student, excluding those with 504 plan	2009	National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 3	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Disability status of student, including those with 504 plan	2009	National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores

## 13. Select Statistics Option



**14. Check Average scale scores and Percentages**



**STEP 3:** Preview and edit existing reports using the action links next to each report name. Create new reports, set format and statistic options. (New and copied reports will appear at the bottom of the report list.)

**Subject, Grade:** Science, Grade 4

**Jurisdictions:** National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA

**Measure:** Overall science scale

**Variables:** All students, Disability status of student, excluding those with 504 plan, Disability status of student, including those with 504 plan, Gender, National School Lunch Program eligibility, 3 categories, Race/ethnicity used to report trends, school-reported, Status as English Language Learner, 2 categories, Time per week on science instruction

**Year:** 2009

Reset

Create New Report			Format Options		Statistics Options	
Report	All <input checked="" type="checkbox"/>	Action	Measure	Variable	Year Jurisdiction	Statistic
Report 1	<input checked="" type="checkbox"/>	<a href="#">Preview</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	All students	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 2	<input checked="" type="checkbox"/>	<a href="#">Preview</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Disability status of student, excluding those with 504 plan	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 3	<input checked="" type="checkbox"/>	<a href="#">Preview</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Disability status of student, including those with 504 plan	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 4	<input checked="" type="checkbox"/>	<a href="#">Preview</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Gender	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 5	<input checked="" type="checkbox"/>	<a href="#">Preview</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	National School Lunch Program eligibility, 3 categories	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 6	<input checked="" type="checkbox"/>	<a href="#">Preview</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Race/ethnicity used to report trends, school-reported	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 7	<input checked="" type="checkbox"/>	<a href="#">Preview</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Status as English Language Learner, 2 categories	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores
Report 8	<input checked="" type="checkbox"/>	<a href="#">Preview</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Time per week on science instruction	2009 National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho...	Average scale scores

15. Click on Build Reports

4. Build Reports



**STEP 4:** View each report table by selecting the report name from the drop-down menu. Create report types to edit and preview, each tab created represents one report type to export. Double-click report tabs to rename.

NDE Help

**Subject, Grade:** Science, Grade 4

**Jurisdictions:** National public, National private, Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA

**Measure:** Overall science scale

**Variables:** All students, Time per week on science instruction

**Year:** 2009

Select Report: Report 2

16. Click on Export Reports

Export Reports

Table

Chart

Significance Test

Gap Analysis

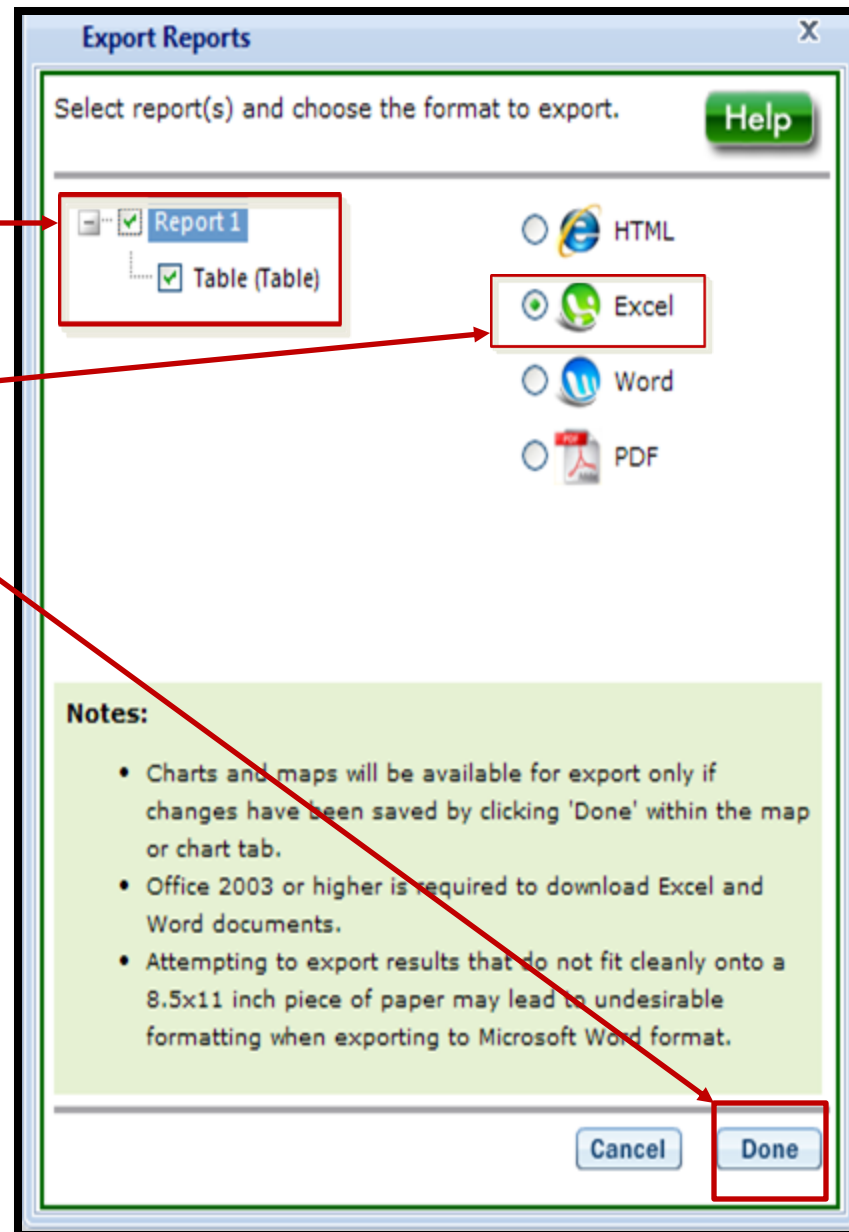
Average scale scores and percentages for science, grade 4 by time per week on science instruction [T090101], year and jurisdiction: 2009

Year	Jurisdiction	Less than 1 hour		1-1.9 hours		2-2.9 hours		3-3.9 hours		4 hours or more	
		Average scale score	Percentage	Average scale score	Percentage	Average scale score	Percentage	Average scale score	Percentage	Average scale score	Percentage
2009	National public	138	6	143	15	150	32	151	27	152	20
	National private	#	1	160	13	161	39	166	35	161	11
	Alabama	135	3	144	6	142	16	142	31	145	44
	Arizona	118	9	135	22	140	32	146	22	141	14
	Arkansas	131	4	148	10	148	30	143	29	147	27
	California	123	12	128	24	145	35	136	20	144	8
	Colorado	153	7	152	22	152	25	159	34	161	13
	Connecticut	147	8	155	29	156	36	159	21	160	6
	Delaware	159	4	148	9	152	25	155	35	152	27
	Florida	152	6	149	14	152	35	149	27	157	17
	Georgia	141	6	140	7	144	25	146	30	143	32
	Hawaii	137	16	141	31	143	34	145	15	125	4
	Idaho	150	15	152	35	155	32	162	12	155	4
	Illinois	134	3	135	9	148	31	152	34	148	22
	Indiana	155	3	146	16	153	40	156	33	154	9
	Iowa	148	3	156	10	157	40	160	34	160	14
	Kentucky	#	1	156	5	148	2	158	10	162	82
	Louisiana	134	3	137	6	136	10	142	32	142	49
	Maine	157	5	158	23	160	39	162	26	160	7

17. Check Report 1

18. Check the format type for export

19. Click Done



### Exported Report:

DEExcelExport-Feb252012-1056AM[1].xls [Protected View]

A	B	C	D	E	F	G	H
<b>National Center for Education Statistics (NCES)</b> <b>Institute of Education Sciences (IES)</b> <b>National Assessment of Educational Progress (NAEP)</b> <small>This report was generated using the NAEP Data Explorer. <a href="http://nces.ed.gov/nationsreportcard/naepdata/">http://nces.ed.gov/nationsreportcard/naepdata/</a></small>							
Average scale scores and percentages for science, grade 4 by year, jurisdiction and time per week on science instruction [T090101]: 2005							
			Less than 1 hour		1-1.9 hours		2-2.9 hours
Year	Jurisdictions	Average scale scores	Percentages		Average scale scores	Percentages	Average scale scores
2005	National public	140	6		144	17	150
	Alabama	130	3		135	6	140
	Arizona	129	12		141	28	140
	Arkansas	145	6		142	17	146
	California	128	13		136	33	141
	Colorado	152	10		153	20	155
	Connecticut	151	3		152	24	156
	Delaware	#	1		150	6	153
	Florida	144	7		148	17	149
	Georgia	141	3		139	7	147
	Hawaii	138	17		139	33	148
	Idaho	151	15		155	34	156
	Illinois	#	1		129	8	147
	Indiana	142	7		148	16	153
	Iowa	—	—		—	—	—
	Kentucky	#	1		#	2	#
	Louisiana	#	2		140	5	129
	Maine	#	1		160	16	160
	Maryland	142	7		146	17	145
	Massachusetts	147	4		159	29	161

# An example of a Reformatted and Token assigned file for EDA in Excel

Subject	Grade	Group Tol	Group Category	Juris Tok	School	Jurisdiction	Avg. scale score	SsSe	PctTested	PctTestedSe
Science	Gr 08	All Stdts	All students	MT	2011	Montana	163.3290715	0.730151684	100	†
Science	Gr 08	SD Yes	IDEA Eligibility	MT	2011	Montana	132.1970052	2.280694056	10	0.4
Science	Gr 08	SD No	IDEA Eligibility	MT	2011	Montana	166.9300429	0.739507819	90	0.4
Science	Gr 08	Male	Gender	MT	2011	Montana	166.2092108	1.111211683	51	0.6
Science	Gr 08	Female	Gender	MT	2011	Montana	160.2993477	1.111650107	49	0.6
Science	Gr 08	NSLP Yes	NSLP	MT	2011	Montana	152.8479975	1.476588525	38	0.7
Science	Gr 08	NSLP No	NSLP	MT	2011	Montana	169.7877883	0.747597722	62	0.7
Science	Gr 08	NSLP No Info	NSLP	MT	2011	Montana				†
Science	Gr 08	White	Race Ethn Trend	MT	2011	Montana	166.864955	0.66244979	84	0.8
Science	Gr 08	Black	Race Ethn Trend	MT	2011	Montana			1	0.3
Science	Gr 08	Hisp	Race Ethn Trend	MT	2011	Montana			3	0.3
Science	Gr 08	AsPi	Race Ethn Trend	MT	2011	Montana			1	0.3
Science	Gr 08	AiAn	Race Ethn Trend	MT	2011	Montana	137.5586364	2.660210704	10	0.6
Science	Gr 08	Multi	Race Ethn Trend	MT	2011	Montana			1	0.3
Science	Gr 08	White	Race Ethn 2011	MT	2011	Montana	166.864955	0.66244979	84	0.8
Science	Gr 08	Black	Race Ethn 2011	MT	2011	Montana			1	0.3
Science	Gr 08	Hisp	Race Ethn 2011	MT	2011	Montana			3	0.3
Science	Gr 08	Asian	Race Ethn 2011	MT	2011	Montana			1	0.2
Science	Gr 08	AiAn	Race Ethn 2011	MT	2011	Montana	137.5586364	2.660210704	10	0.6
Science	Gr 08	NhPi	Race Ethn 2011	MT	2011	Montana				†
Science	Gr 08	Multi	Race Ethn 2011	MT	2011	Montana			1	0.3
Science	Gr 08	ELL Yes	English Lang Lnr	MT	2011	Montana			2	0.2
Science	Gr 08	ELL No	English Lang Lnr	MT	2011	Montana	164.1132522	0.721257285	98	0.2
Science	Gr 08	SD	IDEA Eligibility	MT	2011	Montana	133.7342679	2.256396225	10	0.4
Science	Gr 08	ELL	English Lang Lnr	MT	2011	Montana			1	0.2
Science	Gr 08	SD & ELL	SD & ELL Status	MT	2011	Montana				†
Science	Gr 08	Not SD or EL	SD & ELL Status	MT	2011	Montana	167.710275	0.737828958	88	0.5
Science	Gr 08	SD &/or has	IDEA Eligibility	MT	2011	Montana	133.057948	2.259705432	11	0.4
Science	Gr 08	Not SD &/or	IDEA Eligibility	MT	2011	Montana	166.9337448	0.739060895	89	0.4
Science	Gr 08	City	Schl Loc	MT	2011	Montana	162.7876388	0.953525908	24	0.5
Science	Gr 08	Suburb	Schl Loc	MT	2011	Montana			1	0.1
Science	Gr 08	Town	Schl Loc	MT	2011	Montana	163.0727196	1.197214925	34	0.7
Science	Gr 08	Rural	Schl Loc	MT	2011	Montana	163.8015861	1.250807862	40	0.9
Science	Gr 08	HS Grad No	Parent Educ	MT	2011	Montana	148.6514939	3.432735817	4	0.5
Science	Gr 08	HS Grad Yes	Parent Educ	MT	2011	Montana	150.419648	1.631992858	16	0.9
Science	Gr 08	Some Higher	Parent Educ	MT	2011	Montana	163.3009879	1.743543907	19	0.9
Science	Gr 08	Grad College	Parent Educ	MT	2011	Montana	170.2368538	0.895548355	54	1.1
Science	Gr 08	Ed Unknown	Parent Educ	MT	2011	Montana	150.8878802	2.540602833	7	0.6

**STEP 2:** Select at least one variable from the category list below. View the list of all available variables, view by selected variables only, or search variables by keywords. Years selected will override previous selections.

NDE Help

**Subject, Grade:** Science, Grade 8

**Jurisdictions:** National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA

**Measure:** Overall science scale

**Variables:** National School Lunch Program eligibility, 3 categories, Difficulty of this science test, Effort on this science test, How much student likes science, How often student does science activities that are not for schoolwork, Importance of success on this science test, Science is a favorite subject, Take science because it will help in future, Take science because required

**Year:** 2011

Reset

View All (356)

View Selected (9)

Search:

Go

Category	Sub Category	Variable	All Years	2011	2009
▼ Major Reporting Groups	▼ Student Factors	<input type="checkbox"/> All students <a href="#">details</a>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Disability status of student, excluding those with 504 plan <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Disability status of student, including those with 504 plan <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Gender <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/> National School Lunch Program eligibility, 3 categories <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Parental education level, from 2 questions <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Race/ethnicity used to report trends, school-reported <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Race/ethnicity using 2011 guidelines, school-reported <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	NO DATA
		<input type="checkbox"/> Race/ethnicity using 2011 guidelines, student-reported <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	NO DATA
		<input type="checkbox"/> Status as English Language Learner, 2 categories <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▼ Student Factors	► Demographics				
	▼ Affective disposition	<input checked="" type="checkbox"/> Difficulty of this science test <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/> Effort on this science test <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/> How much student likes science <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/> How often student does science activities that are not for schoolwork <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/> Importance of success on this science test <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/> Science is a favorite subject <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/> Take science because it will help in future <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/> Take science because required <a href="#">details</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	► Academic record and school experience				

3. Edit Reports

## \*Optional:

Here is an example of customizing your NAEP data

Setting variables up for a cross-tab.

Here **NSLP eligibility** versus **student affective disposition** was selected.

Once you are happy with your variables select **Edit Reports**

**STEP 3:** Preview and edit existing reports using the action links next to each report name. Create new reports, set format and statistic options. (New and copied reports will appear at the bottom of the report list.)

NDE Help

**Subject, Grade:** Science, Grade 8

**Jurisdictions:** National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA

**Measure:** Overall science scale

**Variables:** National School Lunch Program eligibility, 3 categories, Difficulty of this science test, Effort on this science test, How much student likes science, How often student does science activities that are not for schoolwork, Importance of success on this science test, Science is a favorite subject, Take science because it will help in future, Take science because required

**Year:** 2011

Reset

Create New Report			Format Options		Statistics Options	
Report	All <input checked="" type="checkbox"/>	Action	Measure	Variable	Year Jurisdiction	Statistic
Report 1	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	National School Lunch Program eligibility, 3 categories	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 2	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Difficulty of this science test	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 3	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Effort on this science test	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 4	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	How much student likes science	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 5	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	How often student does science activities that are not for schoolwork	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 6	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Importance of success on this science test	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 7	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Science is a favorite subject	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 8	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Take science because it will help in future	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 9	<input checked="" type="checkbox"/>	<a href="#">Preview</a>   <a href="#">Edit</a> <a href="#">Delete</a>   <a href="#">Copy</a>	Overall science scale	Take science because required	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores

4. Build Reports

## \*Optional:

customizing your NAEP data

Select **Report 1** and select **Edit**



**\*Optional:**  
customizing your NAEP  
data

Select desired  
Jurisdiction (e.g.,  
**Montana**)

Select **NSLP** versus a  
variable (e.g., "**how  
much student likes  
science**")

Designate desired  
statistic (e.g., **scale  
scores**)

**Edit Report**

**Edit** **Preview** Cancel Done Help

1. Create a name and select a measure for the new report.

Name:  Measure:

2. Select available options from each of the columns below, then preview results.

Jurisdiction <a href="#">Create new...</a>	Variable <a href="#">Create new...</a>	Year	Statistic
<input type="checkbox"/> Mississippi <input type="checkbox"/> Missouri <input checked="" type="checkbox"/> <b>Montana</b> <input type="checkbox"/> Nebraska <input type="checkbox"/> Nevada <input type="checkbox"/> New Hampshire <input type="checkbox"/> New Jersey <input type="checkbox"/> New Mexico	<input checked="" type="checkbox"/> National School Lunch Program eligibility, 3 categories <input type="checkbox"/> Difficulty of this science test <input checked="" type="checkbox"/> Effort on this science test <input type="checkbox"/> How much student likes science <input type="checkbox"/> How often student does science activities that are not for schoolwork	<input type="checkbox"/> Select All <input checked="" type="checkbox"/> 2011	<input checked="" type="checkbox"/> Average scale scores <input type="checkbox"/> Percentages <input type="checkbox"/> Achievement levels - discrete <input type="checkbox"/> Achievement levels - cumulative <input type="checkbox"/> Percentiles <input type="checkbox"/> Standard deviations

3. Drag and drop header elements between Row and Column to custom design the report.

TABLE LAYOUT	
Row	Column
<div>Years</div>	<div>National School Lunch Program eligibility, 3 categories</div>
<div>Jurisdictions</div>	
<div>Effort on this science test</div>	

**\*Optional:**  
customizing your NAEP  
data

Position variables into  
**rows** or **columns** as you  
see fit  
(using a drag and drop  
methodology)

Here “**How much  
student likes science**”  
was moved to the  
column position

**Edit Report**

**Edit** **Preview** Cancel Done

1. Create a name and select a measure for the new report. Help

Name:  Measure:

2. Select available options from each of the columns below, then preview results.

Jurisdiction <a href="#">Create new...</a>	Variable <a href="#">Create new...</a>	Year	Statistic
<input type="checkbox"/> Mississippi	<input checked="" type="checkbox"/> National School Lunch Program eligibility, 3 categories	<input type="checkbox"/> Select All	<input checked="" type="checkbox"/> Average scale scores
<input type="checkbox"/> Missouri	<input type="checkbox"/> Difficulty of this science test	<input checked="" type="checkbox"/> 2011	<input type="checkbox"/> Percentages
<input checked="" type="checkbox"/> Montana	<input type="checkbox"/> Effort on this science test		<input type="checkbox"/> Achievement levels - discrete
<input type="checkbox"/> Nebraska	<input checked="" type="checkbox"/> How much student likes science		<input type="checkbox"/> Achievement levels - cumulative
<input type="checkbox"/> Nevada	<input type="checkbox"/> How often student does science activities that are not for schoolwork		<input type="checkbox"/> Percentiles
<input type="checkbox"/> New Hampshire			<input type="checkbox"/> Standard deviations
<input type="checkbox"/> New Jersey			
<input type="checkbox"/> New Mexico			

3. Drag and drop header elements between Row and Column to custom design the report.

**TABLE LAYOUT**

Row	Column
Years	National School Lunch Program eligibility, 3 categories
Jurisdictions	
How much student likes science	

3. Drag and drop header elements between Row and Column to custom design the report.

**TABLE LAYOUT**

Row	Column
Years	National School Lunch Program eligibility, 3 categories
Jurisdictions	How much student likes science



**\*Optional:**  
customizing your NAEP  
data

Now **preview** your work

Is this how you want  
your table to look? (If  
happy select **done**)

**Edit Report**

**Edit** **Preview** Cancel Done Help

1. Create a name and select a measure for the new report.  
**Name:** Report 1 **Measure:** Overall science scale

2. Select available options from each of the columns below, then preview results.

Jurisdiction <a href="#">Create new...</a>	Variable <a href="#">Create new...</a>	Year	Statistic
<input type="checkbox"/> Mississippi	<input checked="" type="checkbox"/> National School Lunch Program eligibility, 3 categories	<input type="checkbox"/> Select All	<input checked="" type="checkbox"/> Average scale scores
<input type="checkbox"/> Missouri	<input type="checkbox"/> Difficulty of this science test	<input checked="" type="checkbox"/> 2011	<input type="checkbox"/> Percentages
<input checked="" type="checkbox"/> Montana	<input type="checkbox"/> Effort on this science test		<input type="checkbox"/> Achievement levels - discrete
<input type="checkbox"/> Nebraska	<input checked="" type="checkbox"/> How much student likes science		<input type="checkbox"/> Achievement levels - cumulative
<input type="checkbox"/> Nevada	<input type="checkbox"/> How often student does science activities that are not for schoolwork		<input type="checkbox"/> Percentiles
<input type="checkbox"/> New Hampshire			<input type="checkbox"/> Standard deviations
<input type="checkbox"/> New Jersey			
<input type="checkbox"/> New Mexico			

3. Drag and drop header elements between Row and Column to custom design the report.

**TABLE LAYOUT**

Row	Column
Years	National School Lunch Program eligibility, 3 categories
Jurisdictions	How much student likes science

Edit Report

Edit

Preview

Cancel

Done

Eligible										National School Lunch Program									
How much student likes science										Not eligible									
Strongly disagree					Disagree					Agree					Strongly agree				
Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard				
scale	Errors	scale	Errors	scale	Errors	scale	Errors	scale	Errors	scale	Errors	scale	Errors	scale	Errors				
Years										Jurisdictions									
2011										Montana									

# **\*Optional:** customizing your NAEP data

Now **Build** your  
report

1. Select Criteria
2. Select Variables
3. Edit Reports
4. Build Reports

**STEP 3:** Preview and edit existing reports using the action links next to each report name. Create new reports, set format and statistic options. (New and copied reports will appear at the bottom of the report list.)

**NDE Help**

**Subject, Grade:** Science, Grade 8

**Jurisdictions:** National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA

**Measure:** Overall science scale

**Variables:** National School Lunch Program eligibility, 3 categories, Difficulty of this science test, Effort on this science test, How much student likes science, How often student does science activities that are not for schoolwork, Importance of success on this science test, Science is a favorite subject, Take science because it will help in future, Take science because required

**Year:** 2011

**Reset**

Create New Report		Format Options		Statistics Options	
Report	Action	Measure	Variable	Year Jurisdiction	Statistic
Report 1	<input checked="" type="checkbox"/> <a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	National School Lunch Program eligibility, 3 categories, How much student likes science	2011 Montana	Average scale scores
Report 2	<input type="checkbox"/> <a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Difficulty of this science test	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 3	<input type="checkbox"/> <a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Effort on this science test	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 4	<input type="checkbox"/> <a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	How much student likes science	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 5	<input type="checkbox"/> <a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	How often student does science activities that are not for schoolwork	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 6	<input type="checkbox"/> <a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Importance of success on this science test	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 7	<input type="checkbox"/> <a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Science is a favorite subject	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 8	<input type="checkbox"/> <a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Take science because it will help in future	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores
Report 9	<input type="checkbox"/> <a href="#">Preview</a>   <a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Copy</a>	Overall science scale	Take science because required	2011 National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, H...	Average scale scores

**4. Build Reports**

# \*Optional: customizing your NAEP data

## Now **Export** your report

MAIN NDE
1. Select Criteria
2. Select Variables
3. Edit Reports
4. Build Reports

**STEP 4:** View each report table by selecting the report name from the drop-down menu. Create report types to edit and preview, each tab created represents one report type to export. Double-click report tabs to rename.

**Subject, Grade:** Science, Grade 8  
**Jurisdictions:** National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA  
**Measure:** Overall science scale  
**Variables:** National School Lunch Program eligibility, 3 categories, Difficulty of this science test, Effort on this science test, How much student likes science, How often student does science activities that are not for schoolwork, Importance of success on this science test, Science is a favorite subject, Take science because it will help in future, Take science because required  
**Year:** 2011

Select Report: Report 1

**Export Reports**

Table

Chart

Significance Test

Gap Analysis

Average scale scores for science, grade 8 by National School Lunch Program eligibility, 3 categories [SLUNCH3], how much student likes science [K816604], year and jurisdiction: 2011

Year/Jurisdiction		National School Lunch Program eligibility, 3 categories												Information not available											
		Eligible						Not eligible						How much student likes science											
		Strongly disagree		Disagree		Agree		Strongly agree		Strongly disagree		Disagree		Agree		Strongly agree		Strongly disagree		Disagree		Agree		Strongly agree	
		Average scale score	Standard Error	Average scale score	Standard Error	Average scale score	Standard Error	Average scale score	Standard Error	Average scale score	Standard Error	Average scale score	Standard Error	Average scale score	Standard Error	Average scale score	Standard Error	Average scale score	Standard Error	Average scale score	Standard Error	Average scale score	Standard Error	Average scale score	Standard Error
2011	Montana	144	(3.9)	147	(2.5)	157	(1.8)	160	(3.3)	161	(2.6)	163	(1.9)	171	(0.9)	178	(2.1)	+	(+)	+	(+)	+	(+)	+	(+)

† Not applicable.  
 \* Reporting standards not met.  
 NOTE: The NAEP Science scale ranges from 0 to 300. Some apparent differences between estimates may not be statistically significant.  
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

About NAEP Data Explorer
Important Legal Information
Accessible Version

**\*Optional:**  
customizing your NAEP  
data

Designate **Exported**  
report form

**Exported Report:**

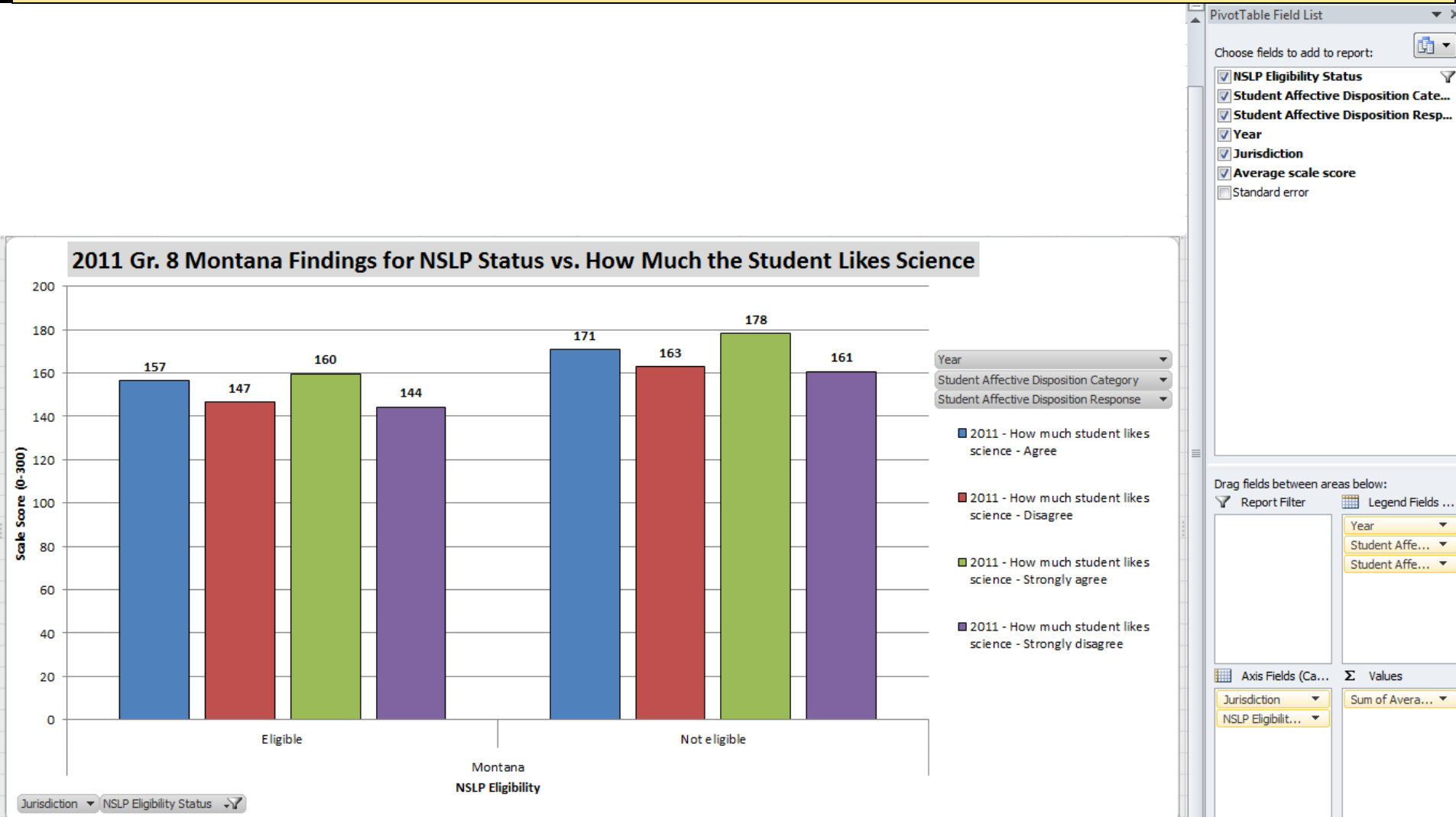
<b>National Center for Education Statistics (NCES)</b>										
Institute of Education Sciences (IES)										
<b>National Assessment of Educational Progress (NAEP)</b>										
This report was generated using the NAEP Data Explorer. <a href="http://nces.ed.gov/nationsreportcard/naepdata/">http://nces.ed.gov/nationsreportcard/naepdata/</a>										
Average scale scores for science, grade 8 by National School Lunch Program eligibility, 3 categories [SLUNCH3], how much student likes science [K816604], year and jurisdiction: 2011										
Eligible										
How much student likes science										
Strongly disagree		Disagree		Agree		Strongly agree		Strongly disagree		
Year	Jurisdiction	Average scale score	Standard error	Average scale score	Standard error	Average scale score	Standard error	Average scale score	Standard error	Average scale score
2011	Montana	144	(3.9)	147	(2.5)	157	(1.8)	160	(3.3)	161
† Not applicable.										
‡ Reporting standards not met.										
NOTE: The NAEP Science scale ranges from 0 to 300. Some apparent differences between estimates may not be statistically significant.										
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.										

## An example of a Reformatted and Token assigned file for EDA in Excel

NSLP Eligibility Status	Student Affective Disposition Category	Student Affective Disposition Response	Year	Jurisdiction	Average scale score	Standard error
Eligible	How much student likes science	Strongly disagree	2011	Montana	144	3.9
Eligible	How much student likes science	Disagree	2011	Montana	147	2.5
Eligible	How much student likes science	Agree	2011	Montana	157	1.8
Eligible	How much student likes science	Strongly agree	2011	Montana	160	3.3
Not eligible	How much student likes science	Strongly disagree	2011	Montana	161	2.6
Not eligible	How much student likes science	Disagree	2011	Montana	163	1.9
Not eligible	How much student likes science	Agree	2011	Montana	171	0.9
Not eligible	How much student likes science	Strongly agree	2011	Montana	178	2.1
Information not available	How much student likes science	Strongly disagree	2011	Montana	‡	†
Information not available	How much student likes science	Disagree	2011	Montana	‡	†
Information not available	How much student likes science	Agree	2011	Montana	‡	†
Information not available	How much student likes science	Strongly agree	2011	Montana	‡	†

This spreadsheet is set up so each row is an individual record of the desired NAEP data. This allows the researcher to do Exploratory Data Analysis (EDA) with pivots. On the next slide is an example pivot of the above dataset.

# Example Pivot with NSLP and Student Likes Science Data



# Performing Significance on Results

MAIN NDE

1. Select Criteria

2. Select Variables

3. Edit Reports

4. Build Reports

**STEP 4:** View each report table by selecting the report name from the drop-down menu. Create report types to edit and preview, each tab created represents one report type to export. Double-click report tabs to rename.

NDE Help

**Subject, Grade:** Science, Grade 8

**Jurisdictions:** National public, Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, DoDEA

**Measure:** Overall science scale

**Variables:** National School Lunch Program eligibility, 3 categories, Difficulty of this science test, Effort on this science test, How much student likes science, How often student does science activities that are not for schoolwork, Importance of success on this science test, Science is a favorite subject, Take science because it will help in future, Take science because required

**Year:** 2011

Select Report: Report 1

Export Reports

Table

Chart

Significance Test

Gap Analysis

Average scale scores for science, grade 8 by National School Lunch Program eligibility, 3 categories [SLUNCH3], how much student likes science [K816604], year and jurisdiction: 2011

## National School Lunch Program eligibility, 3 categories

Year/Jurisdiction		Eligible												Not eligible												Information not available							
		How much student likes science												How much student likes science												How much student likes science							
		Strongly disagree	Disagree	Agree	Strongly agree	Strongly disagree	Disagree	Agree	Strongly agree	Strongly disagree	Disagree	Agree	Strongly agree	Strongly disagree	Disagree	Agree	Strongly agree	Strongly disagree	Disagree	Agree	Strongly agree	Strongly disagree	Disagree	Agree	Strongly agree	Strongly disagree	Disagree	Agree	Strongly agree	Strongly disagree	Disagree	Agree	Strongly agree
Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard	Average	Standard
score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error	score	Error
2011	Montana	144	(3.9)	147	(2.5)	157	(1.8)	160	(3.3)	161	(2.6)	163	(1.9)	171	(0.9)	178	(2.1)	†	(†)	†	(†)	†	(†)	†	(†)	†	(†)	†	(†)	†	(†)	†	(†)

† Not applicable.

‡ Reporting standards not met.

NOTE: The NAEP Science scale ranges from 0 to 300. Some apparent differences between estimates may not be statistically significant.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2011 Science Assessment.

About NAEP Data Explorer

Important Legal Information

Accessible Version

Select Significance Test

# Performing **Significance** on Results

Select **Variables**

**Significance Test**

**Edit** **Preview** Cancel Done

1. Select one category to compare significance from the choices available below. Help

**Between Jurisdictions** **Within Variables** **Across Years**

2. Create a name for this significance test. **Name:** Sig Test 2

3. Select the output type. ☒ Table ☐ Map ☐ Comparison

4. Select additional options. ☐ Show score details

5. Select available options from each of the columns below, then preview results.

Jurisdiction	Variable	Year	Statistic
<input checked="" type="checkbox"/> Montana	<input checked="" type="checkbox"/> National School Lunch Program e <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Eligible</li><li><input checked="" type="checkbox"/> Not eligible</li><li><input type="checkbox"/> Information not available</li></ul>	<input checked="" type="checkbox"/> 2011	<input checked="" type="checkbox"/> Average scale scores
	<input checked="" type="checkbox"/> How much student likes science		

Preview Cancel Done



# Performing Significance on Results

Export Report

Select Report: <div>Report 1</div>									Export Reports
Table	Sig Test 1 X								
Chart		Significance Test			Gap Analysis				
	Eligible Strongly disagree (144)	Eligible Disagree (147)	Eligible Agree (157)	Eligible Strongly agree (160)	Not eligible Strongly disagree (161)	Not eligible Disagree (163)	Not eligible Agree (171)	Not eligible Strongly agree (178)	
Eligible Strongly disagree (144)		X Diff = -2 P-value = 0.6432 Family size = 28	< Diff = -12 P-value = 0.0074 Family size = 28	< Diff = -15 P-value = 0.0045 Family size = 28	< Diff = -16 P-value = 0.0012 Family size = 28	< Diff = -19 P-value = 0.0001 Family size = 28	< Diff = -26 P-value = 0.0000 Family size = 28	Diff P-value Family	
Eligible Disagree (147)	X Diff = 2 P-value = 0.6432 Family size = 28		< Diff = -10 P-value = 0.0016 Family size = 28	< Diff = -13 P-value = 0.0027 Family size = 28	< Diff = -14 P-value = 0.0002 Family size = 28	< Diff = -16 P-value = 0.0000 Family size = 28	< Diff = -24 P-value = 0.0000 Family size = 28	Diff P-value Family	
Eligible Agree (157)	> Diff = 12 P-value = 0.0074 Family size = 28	> Diff = 10 P-value = 0.0016 Family size = 28		X Diff = -3 P-value = 0.4161 Family size = 28	X Diff = -4 P-value = 0.2040 Family size = 28	< Diff = -6 P-value = 0.0165 Family size = 28	< Diff = -14 P-value = 0.0000 Family size = 28	Diff P-value Family	
Eligible Strongly agree (160)	> Diff = 15 P-value = 0.0045 Family size = 28	> Diff = 13 P-value = 0.0027 Family size = 28	X Diff = 3 P-value = 0.4161 Family size = 28		X Diff = -1 P-value = 0.8251 Family size = 28	X Diff = -3 P-value = 0.4008 Family size = 28	< Diff = -11 P-value = 0.0035 Family size = 28	Diff P-value Family	
Not eligible Strongly disagree (161)	> Diff = 16 P-value = 0.0012 Family size = 28	> Diff = 14 P-value = 0.0002 Family size = 28	X Diff = 4 P-value = 0.2040 Family size = 28	X Diff = 1 P-value = 0.8251 Family size = 28		X Diff = -2 P-value = 0.4750 Family size = 28	< Diff = -10 P-value = 0.0007 Family size = 28	Diff P-value Family	
Not eligible Disagree (163)	> Diff = 19 P-value = 0.0001 Family size = 28	> Diff = 16 P-value = 0.0000 Family size = 28	> Diff = 6 P-value = 0.0165 Family size = 28	X Diff = 3 P-value = 0.4008 Family size = 28	X Diff = 2 P-value = 0.4750 Family size = 28		< Diff = -8 P-value = 0.0005 Family size = 28	Diff P-value Family	
Not eligible Agree (171)	> Diff = 26 P-value = 0.0000 Family size = 28	> Diff = 24 P-value = 0.0000 Family size = 28	> Diff = 14 P-value = 0.0000 Family size = 28	> Diff = 11 P-value = 0.0035 Family size = 28	> Diff = 10 P-value = 0.0007 Family size = 28	> Diff = 8 P-value = 0.0005 Family size = 28		Diff P-value Family	
Not eligible Strongly agree (178)	> Diff = 34 P-value = 0.0000 Family size = 28	> Diff = 32 P-value = 0.0000 Family size = 28	> Diff = 22 P-value = 0.0000 Family size = 28	> Diff = 19 P-value = 0.0000 Family size = 28	> Diff = 18 P-value = 0.0000 Family size = 28	> Diff = 15 P-value = 0.0000 Family size = 28	> Diff = 8 P-value = 0.0015 Family size = 28		
Legend:									
<	Significantly lower.								
>	Significantly higher.								
x	No significant difference.								
NOTE: All comparisons are independent tests with an alpha level of 0.05 adjusted for multiple pairwise comparisons according to the False Discovery Rate procedure. For comparisons between two jurisdictions, a dependent test is performed for cases where one jurisdiction is contained in the other. For more detailed information about the p-value family sizes please see the Help document.									

# Performing Significance on Results

Exported **Report**  
in pdf format

LEGEND:  
< Significantly lower.  
> Significantly higher.  
x No significant difference.

NOTE: All comparisons are independent tests with an alpha level of 0.05 adjusted for multiple pairwise comparisons according to the False Discovery Rate procedure. For comparisons between two jurisdictions, a dependent test is performed for cases where one jurisdiction is contained in the other. For more detailed information about the procedures and family sizes please see the Help document.

## National Center for Education Statistics (NCES)

Institute of Education Sciences (IES)

National Assessment of Educational Progress (NAEP)

This report was generated using the NAEP Data Explorer. <http://nces.ed.gov/nationsreportcard/naepdata/>

### Report 1: Sig Test 1

Science, grade 8

Difference in average scale scores between variables, for National School Lunch Program eligibility, 3 categories [SLUNCH3] by how much student likes science [KS16604]

Montana, 2011

	Eligible Strongly disagree (144)	Eligible Disagree (147)	Eligible Agree (157)	Eligible Strongly agree (160)	Not eligible Strongly disagree (161)	Not eligible Disagree (163)	Not eligible Agree (171)	Not eligible Strongly agree (178)
Eligible Strongly disagree (144)		x Diff = -2 P-value = 0.6432 Family size = 28	< Diff = -12 P-value = 0.0074 Family size = 28	< Diff = -15 P-value = 0.0045 Family size = 28	< Diff = -16 P-value = 0.0012 Family size = 28	< Diff = -19 P-value = 0.0001 Family size = 28	< Diff = -26 P-value = 0.0000 Family size = 28	< Diff = -34 P-value = 0.0000 Family size = 28
Eligible Disagree (147)	x Diff = 2 P-value = 0.6432 Family size = 28		< Diff = -10 P-value = 0.0016 Family size = 28	< Diff = -13 P-value = 0.0027 Family size = 28	< Diff = -14 P-value = 0.0002 Family size = 28	< Diff = -16 P-value = 0.0000 Family size = 28	< Diff = -24 P-value = 0.0000 Family size = 28	< Diff = -32 P-value = 0.0000 Family size = 28
Eligible Agree (157)	> Diff = 12 P-value = 0.0074 Family size = 28	> Diff = 10 P-value = 0.0016 Family size = 28		x Diff = -3 P-value = 0.4161 Family size = 28	x Diff = -4 P-value = 0.2040 Family size = 28	< Diff = -6 P-value = 0.0165 Family size = 28	< Diff = -14 P-value = 0.0000 Family size = 28	< Diff = -22 P-value = 0.0000 Family size = 28
Eligible Strongly agree (160)	> Diff = 15 P-value = 0.0045 Family size = 28	> Diff = 13 P-value = 0.0027 Family size = 28	x Diff = 3 P-value = 0.4161 Family size = 28		x Diff = -1 P-value = 0.8251 Family size = 28	x Diff = -3 P-value = 0.4008 Family size = 28	< Diff = -11 P-value = 0.0035 Family size = 28	< Diff = -19 P-value = 0.0000 Family size = 28
Not eligible Strongly disagree (161)	> Diff = 16 P-value = 0.0012 Family size = 28	> Diff = 14 P-value = 0.0002 Family size = 28	x Diff = 4 P-value = 0.2040 Family size = 28	x Diff = 1 P-value = 0.8251 Family size = 28		x Diff = -2 P-value = 0.4750 Family size = 28	< Diff = -10 P-value = 0.0007 Family size = 28	< Diff = -18 P-value = 0.0000 Family size = 28
Not eligible Disagree (163)	> Diff = 19 P-value = 0.0001 Family size = 28	> Diff = 16 P-value = 0.0000 Family size = 28	> Diff = 6 P-value = 0.0165 Family size = 28	x Diff = 3 P-value = 0.4008 Family size = 28	x Diff = 2 P-value = 0.4750 Family size = 28		< Diff = -8 P-value = 0.0005 Family size = 28	< Diff = -15 P-value = 0.0000 Family size = 28
Not eligible Agree (171)	> Diff = 26 P-value = 0.0000 Family size = 28	> Diff = 24 P-value = 0.0000 Family size = 28	> Diff = 14 P-value = 0.0000 Family size = 28	> Diff = 11 P-value = 0.0035 Family size = 28	> Diff = 10 P-value = 0.0007 Family size = 28	> Diff = 8 P-value = 0.0005 Family size = 28		< Diff = -8 P-value = 0.0015 Family size = 28
Not eligible Strongly agree (178)	> Diff = 34 P-value = 0.0000 Family size = 28	> Diff = 32 P-value = 0.0000 Family size = 28	> Diff = 22 P-value = 0.0000 Family size = 28	> Diff = 19 P-value = 0.0000 Family size = 28	> Diff = 18 P-value = 0.0000 Family size = 28	> Diff = 15 P-value = 0.0000 Family size = 28	> Diff = 8 P-value = 0.0015 Family size = 28	